MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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NOTICE OF ACCEPTANCE (NOA)

Metrotile Manufacturing
3093 Industry Street
Oceanside, CA. 92054

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Metro Tile, Metro Roman Tile, Metro Shake, Metro Shake II, Pacific Shake, Pacific Tile, Roman-Villa Tile, Metro Cottage Shingle

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA# 16-0822.10 and consists of pages 1 through 13.
The submitted documentation was reviewed by Alex Tigera.

MIAMI-DADE COUNTY APPROVED

ROOFING ASSEMBLY APPROVAL:

Category:	Roofing
Sub-Category:	Non-Structural Metal Roofing
Material:	Steel
Deck Type:	Wood
Maximum Design Pressure	**-150 psf**

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specifications	Product Description
Metro Tile	L = 52” w=16” t=0.019” (26 ga.) yield strength 42 ksi	TAS 110	Corrosion resistant, galvalume, preformed, stone coated, prefinished, metal panels.
Metro Roman Tile	L = 50-1/2” w=16” t=0.019” (26 ga.) yield strength 42 ksi	TAS 110	Corrosion resistant, galvalume, preformed, stone coated, prefinished, metal panels.
Metro Cottage Shingle	L = 51” w=16” t=0.019” (26 ga.) yield strength 42 ksi	TAS 110	Corrosion resistant, galvalume, preformed, stone coated, prefinished, metal panels.
Metro Shake, Metro Shake II	L = 52” w=16” t=0.019” (26 ga.) yield strength 42 ksi	TAS 110	Corrosion resistant, galvalume, preformed, stone coated, prefinished, metal panels.
Pacific Shake	L = 50-1/2” w=16” t=0.019” (26 ga.) yield strength 42 ksi	TAS 110	Corrosion resistant, galvalume, preformed, stone coated, prefinished, metal panels.
Pacific Tile	L = 52” w=16” t=0.019” (26 ga.) yield strength 42 ksi	TAS 110	Corrosion resistant, galvalume, preformed, stone coated, prefinished, metal panels.
Roman-Villa Tile	L = 48” w=16” t=0.019” (26 ga.) yield strength 42 ksi	TAS 110	Corrosion resistant, galvalume, preformed, stone coated, prefinished, metal panels.
Trim Pieces	l = varies w = varies min. 26 ga.	TAS 110	Standard flashing and trim pieces. Manufactured for each panel.

MANUFACTURING LOCATION:

1. Oceanside, CA.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Underwriters Laboratory	06CA38220	TAS 125	July 2006
	08NK09026		May. 2008
PRI Construction Materials Technologies	MRP-005-02-01	ASTM B117	03/09/17
	MRP-005-02-02	ASTM G155 / TAS 110	03/21/17
	MRPC-006-02-01	TAS 100	04/17/17
	MRPC-006-02-02	TAS 125 / UL 580	04/03/17
	MRPC-007-02-01	TAS 100	04/18/17
	MRPC-007-02-02.1	TAS 125 / UL 580	04/20/17
	MPRC-012-02-01	TAS 100	08/30/17

APPROVED ASSEMBLIES:

System A:	**Metro Tile, Metro Roman Tile, Metro Shake, Metro Shake II, Pacific Shake, Pacific Tile, Roman-Villa Tile, Metro Cottage Shingle (WITH BATTENS)**
Deck Type:	Wood, Non-Insulated
Deck Description:	New Construction $^{19}/_{32}$" or greater plywood or wood plank.
Slope Range:	3": 12" or greater
Maximum Uplift Pressure:	**See Below**

Deck Attachment: In accordance with Applicable Building Code, but in no case shall it be less than #8d x 2-1/2" long ring-shank nails spaced **6" o.c.** In reroofing, where the deck is less than $^{19}/_{32}$" thick (minimum $^{15}/_{32}$"), the above attachment method must be in addition to existing attachment.

Underlayment: Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-laps and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 1¼" annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll. Or, any Miami-Dade County Product Control Approved underlayment having a current NOA.

Fire Barrier Board: Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.

Valleys: Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with Metro Roof Products current published installation instructions.

Battens: **Field Conditions**: Install nominal 2" x 2" wood battens over underlayment at a maximum spacing of 14-½" using minimum of one (1) #8-11 x 3" bugle head wood screw at each batten/joist intersection (24" o.c.).

Perimeter and Corner Conditions: Install nominal 2" x 2" wood battens over underlayment at a maximum spacing of 14-½" using minimum of one (1) #8-11 x 3" bugle head wood screw at each batten/joist intersection (24" o.c.). Additionally install one (1) #8-11 x 3" bugle head screw at mid point between batten/joist intersection.

Metal Panels and Accessories: Install the panel and accessories in compliance with Metro Roof Products current, published installation instructions and details. Flashing, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided Roofing Application Standards RAS 133.

Field Condition: Fasten the panel through the nose of the tile to the battens with #10-16, 2" HWH wood screws. Use **five (5)** screws per panel spaced between 8.5" and 12" o.c. through the vertical leg at the head lap. See **Detail A** and **Detail C** for fastening patterns.

Maximum Design Pressure: -82.5 psf. (See General Limitation #2)

Perimeter and Corner Condition: Fasten the panel through the nose of the tile to the battens with #10-16, 2" long HWH wood screw. Use **ten (10)** screws per panel spaced between 2-3/4" and 5-3/4" o.c. through the vertical leg at the head lap. See **Detail A and Detail C** for fastening patterns

Maximum Design Pressure: -150 psf. (See General Limitation #2)

System B:	**Metro Tile, Metro Roman Tile, Metro Shake, Metro Shake II, Pacific Shake, Pacific Tile, Roman-Villa Tile, Metro Cottage Shingle (DIRECT DECK)**
Deck Type:	Wood, Non-Insulated
Deck Description:	New Construction $^{19}/_{32}$" or greater plywood or wood plank.
Slope Range:	3": 12" or greater
Maximum Uplift Pressure:	**See Below**

Deck Attachment:	In accordance with Applicable Building Code, but in no case shall it be less than #8d x 2-1/2" long ring-shank nails spaced **6" o.c.** In reroofing, where the deck is less than $^{19}/_{32}$" thick (minimum $^{15}/_{32}$"), the above attachment method must be in addition to existing attachment.
Underlayment:	Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-laps and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 1¼" annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll. Or, any Miami-Dade County Product Control Approved underlayment having a current NOA.
Fire Barrier Board:	Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.
Valleys:	Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with Metro Roof Products current published installation instructions.
Metal Panels and Accessories:	Install the panel and accessories in compliance with Metro Roof Products current, published installation instructions and details. Flashing, penetrations, valley construction and other details shall be constructed in compliance with the minimum requirements provided Roofing Application Standards RAS 133.
Field Condition:	Fasten the panel with **eight (8)** #10-16, 2-1/2" long, HWH wood screws. Use **four (4)** screws spaced approximately 13" o.c. through the vertical leg at the headlap of the panel beginning at the center of the side lap and use **four (4)** spaced approximately 12-3/8" o.c. through the horizontal leg at the back of each panel beginning at the side lap. See **Detail B and Detail D** for fastening patterns. ***Maximum Design Pressure: -52.5psf. (See General Limitation #2)***
Perimeter and Corner Condition:	Fasten the panel with **sixteen (16)** #10-16, 2-1/2" long, HWH wood screws. Use **eight (8)** screws spaced approximately 7.5" o.c. through the vertical leg at the headlap of the panel beginning at the center of the side lap and use **eight (8)** spaced approximately 6-1/4" o.c. through the horizontal leg at the back of each panel beginning at the side lap. See **Detail B and Detail D** for fastening patterns. ***Maximum Design Pressure: -127.5 psf. (See General Limitation #2)***

SYSTEM LIMITATIONS

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.

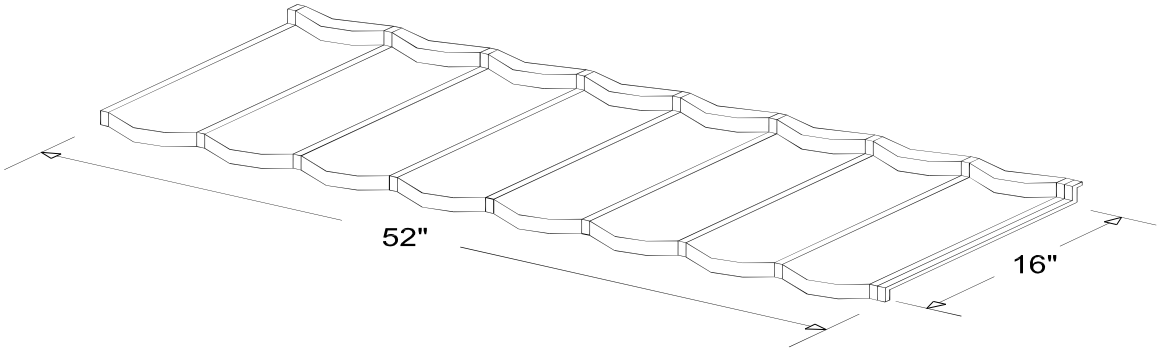
2. The maximum designed pressure listed herein shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).

3. Panels may be rolls formed in continuous lengths from eave to ridge. Maximum lengths shall be as described in Roofing Application Standard RAS 133

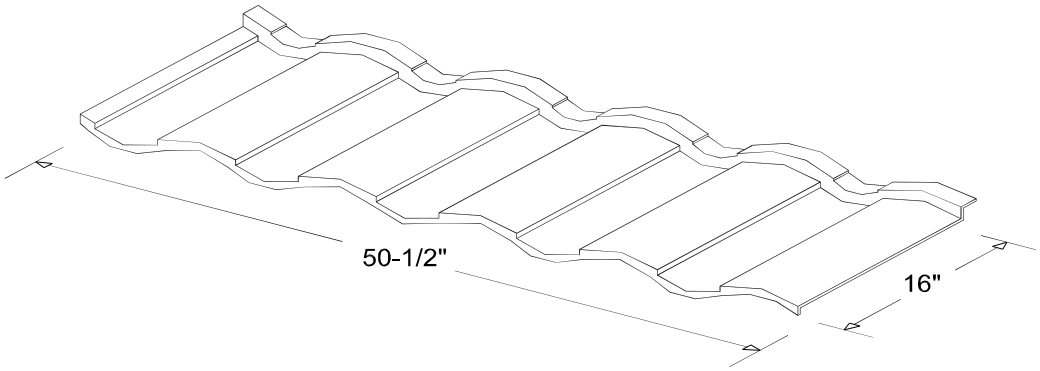
4. All panels shall be permanently labeled with the manufacturer's name and/or logo, and the following statement: "Miami-Dade County Product Control Approved" **or** with the Miami-Dade County Product Control Seal as seen below. All clips shall be permanently labeled with the manufacturer's name and/or logo, and/or model.

5. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

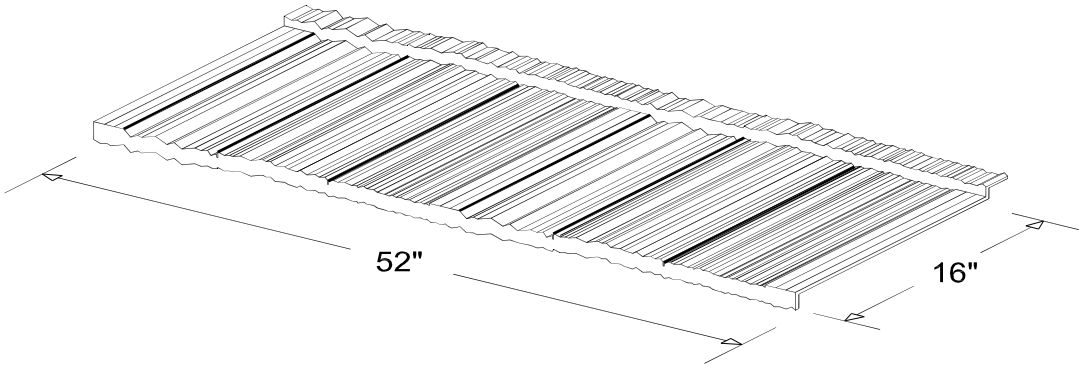
PROFILE DRAWINGS



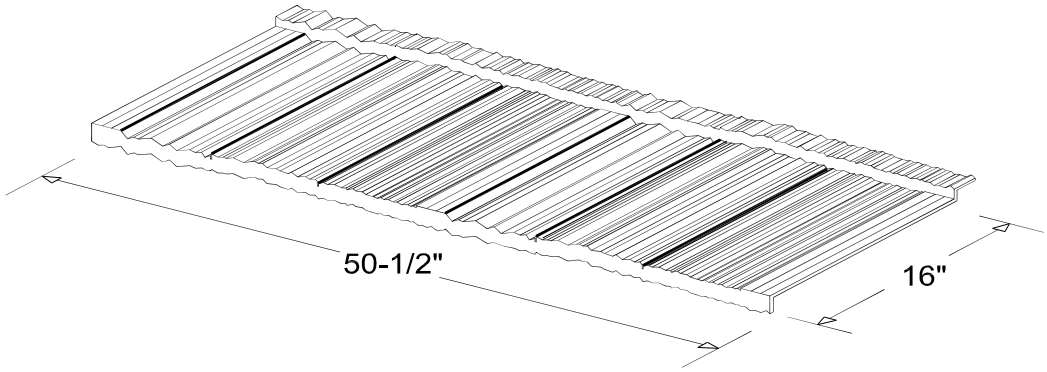
METRO TILE



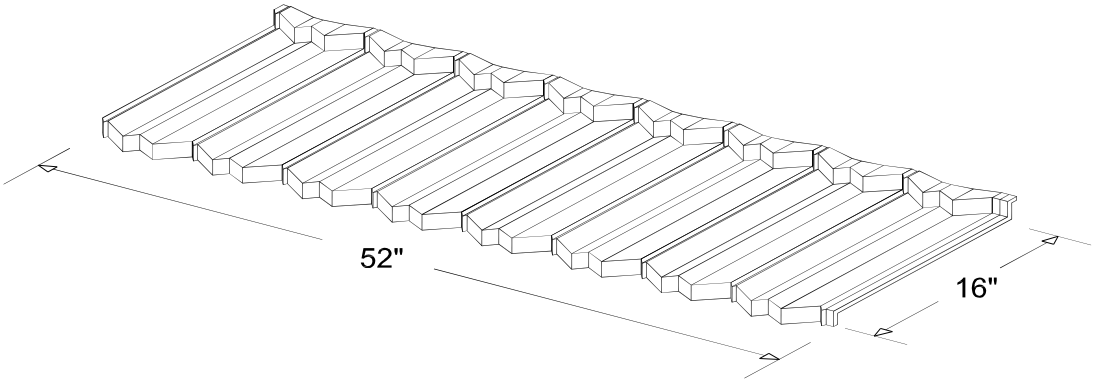
METRO ROMAN TILE



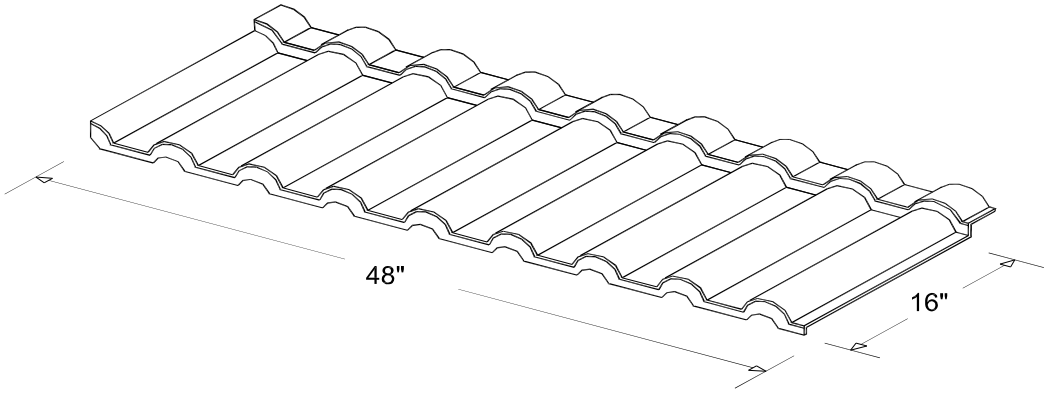
METRO SHAKE/ METRO SHAKE II



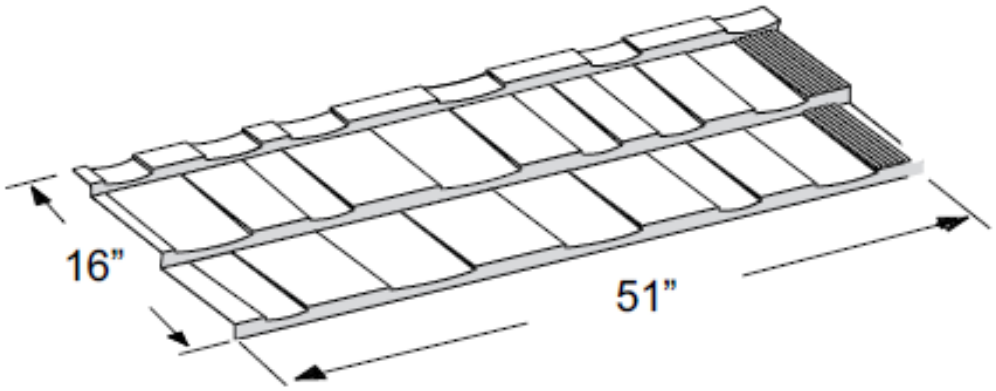
PACIFIC SHAKE



PACIFIC TILE

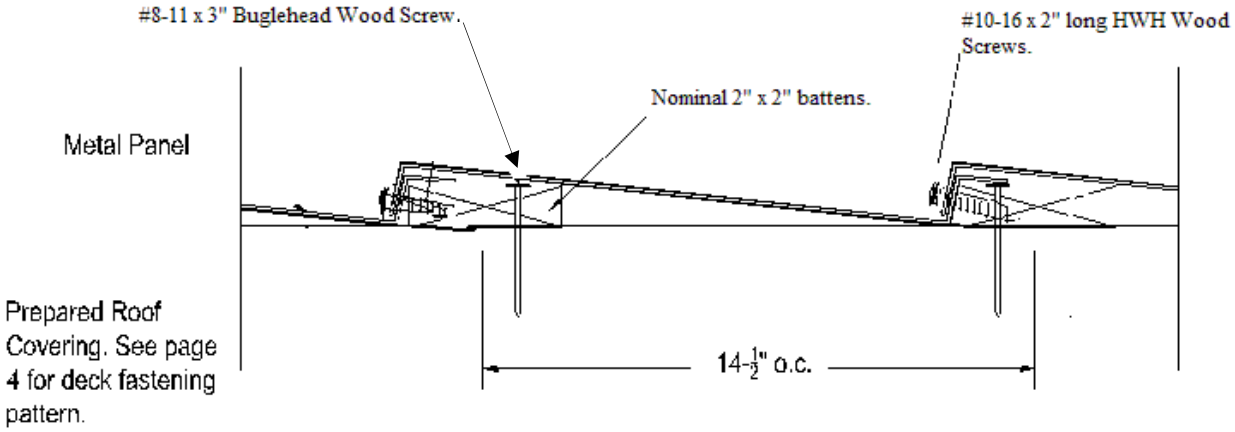


ROMAN-VILLA TILE

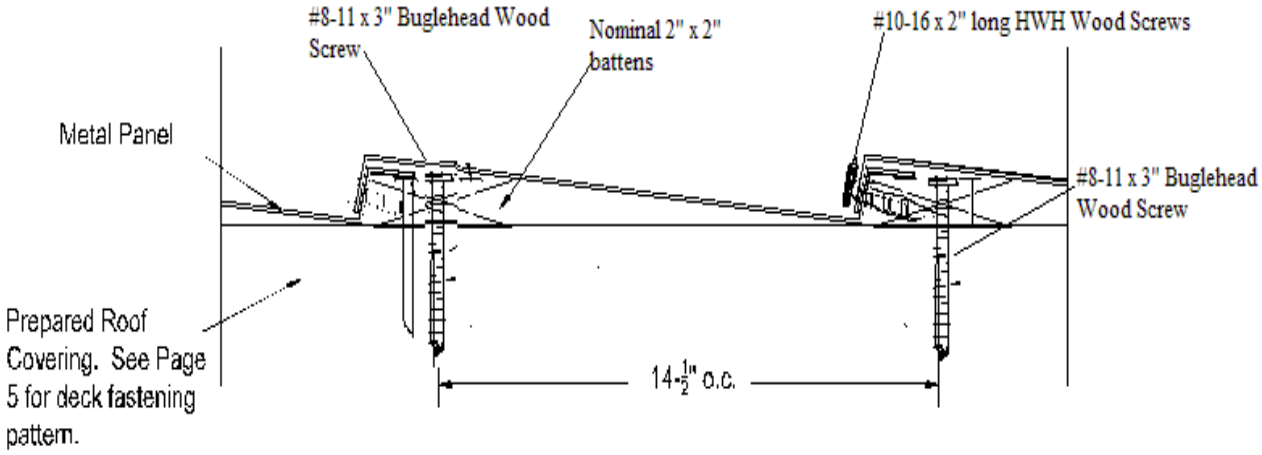


METRO COTTAGE SHINGLE

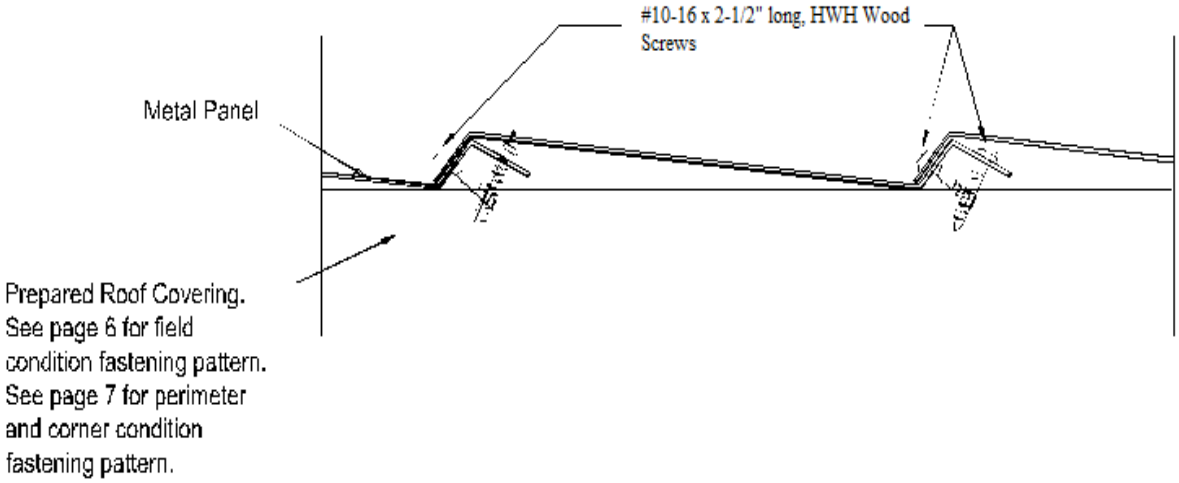
DETAIL A (WITH BATTENS)
(N.T.S.)
FIELD CONDITION



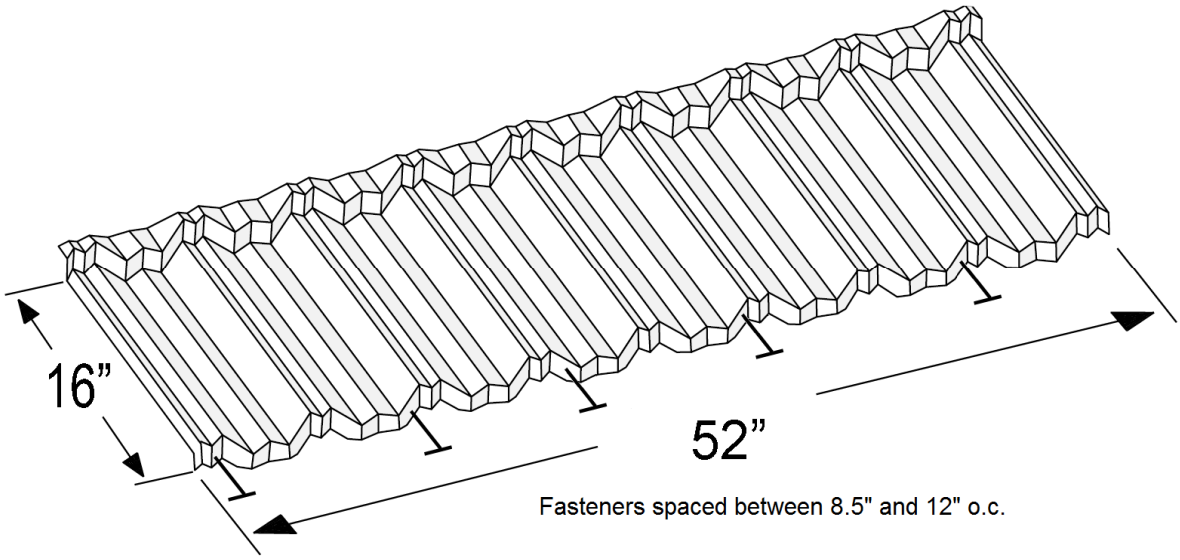
PERIMETER AND CORNER CONDITION



DETAIL B (DIRECT DECK)
(N.T.S.)
FIELD, PERIMETER AND CORNER CONDITIONS

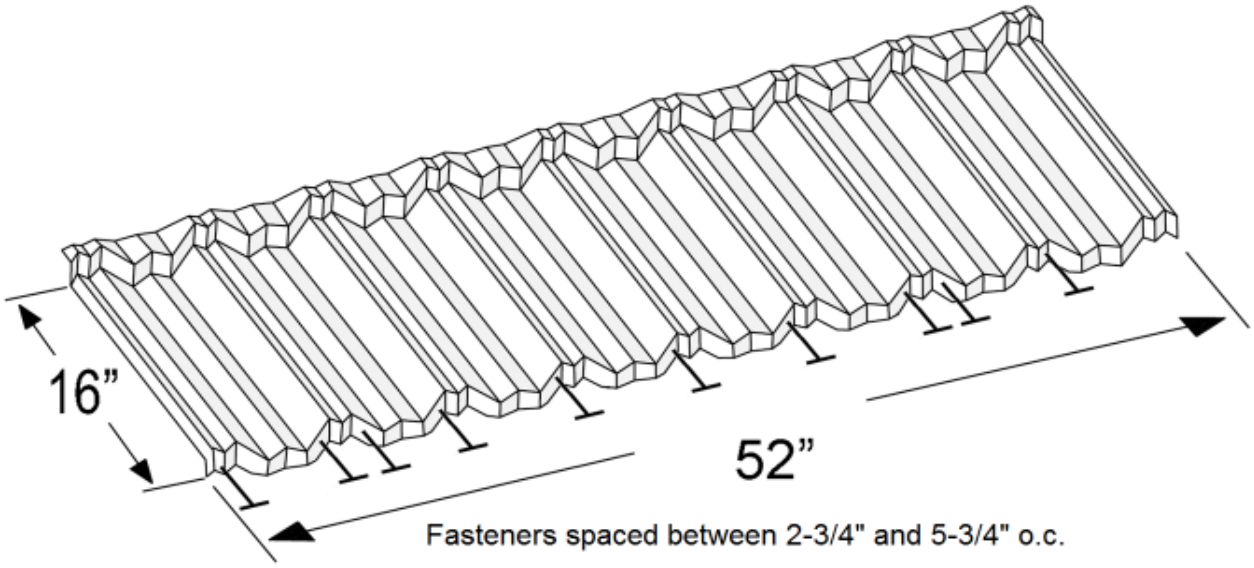


DETAIL C (WITH BATTENS)
FASTENER SPACING AND LOCATION – FIELD CONDITION



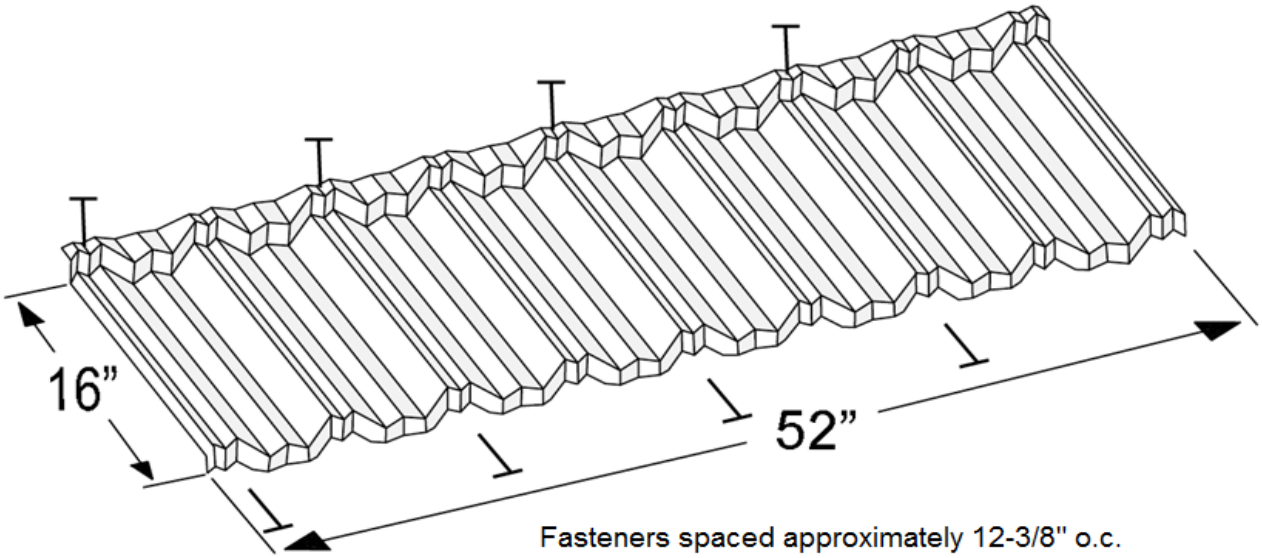
(Note: Typical panel used for illustration purpose)

FASTENER SPACING AND LOCATION – PERIMETER AND CORNER CONDITION



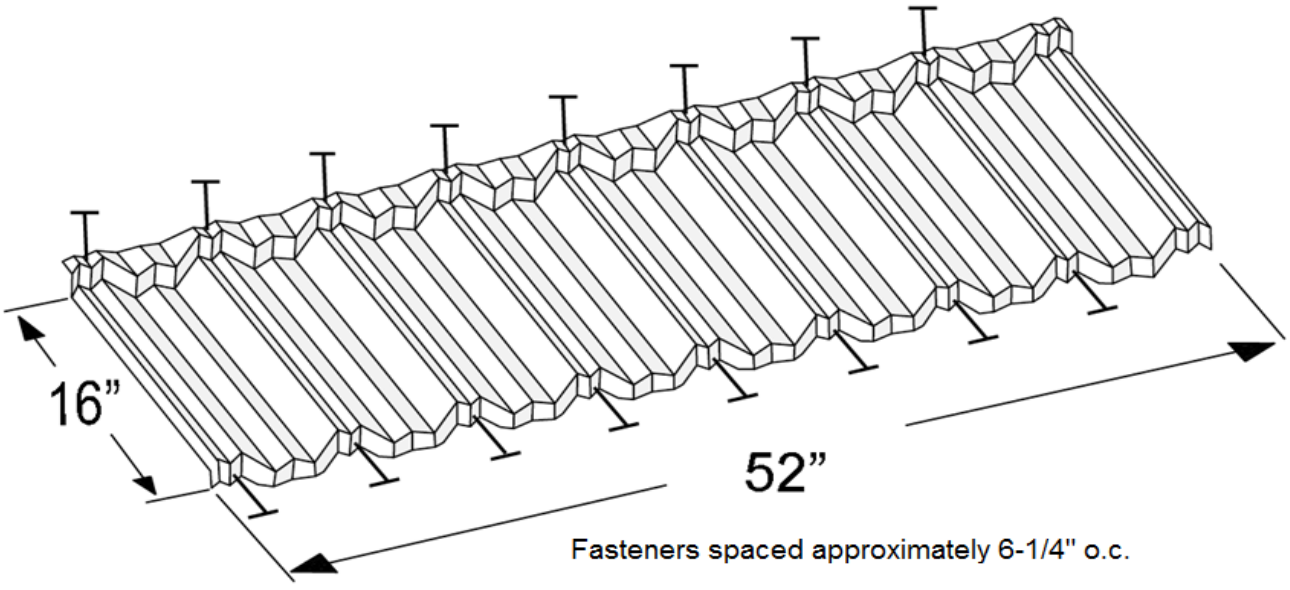
(Note: Typical panel used for illustration purpose)

DETAIL D (DIRECT TO DECK)
FASTENER SPACING AND LOCATION – FIELD CONDITION



(Note: Typical panel used for illustration purpose)

FASTENER SPACING AND LOCATION – PERIMETER AND CORNER CONDITION



(Note: Typical panel used for illustration purpose)

END OF THIS ACCEPTANCE